

MODEL ELEVEN GX (KR-11000GX)

Model ELEVEN GX circuit only is modified power amplifier from Model ELEVEN G.

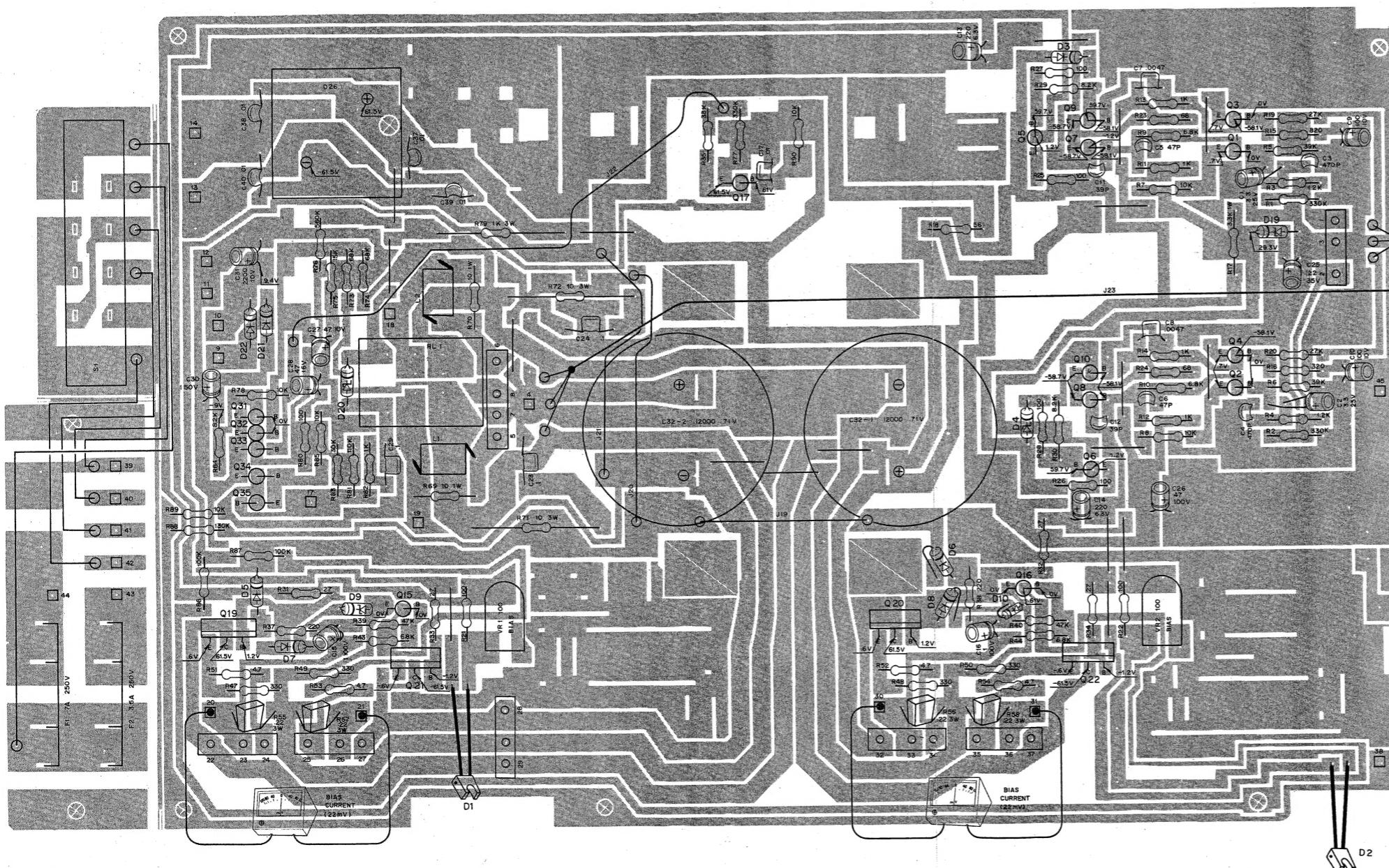
This Service Manual documents a whole schematic, spec. PCB illustration and parts list.

As for adjustment procedure, disassembly and other items, refer to the Model ELEVEN G Service Manual.

POWER AMP (X07-1760-80)

COMPONENT SIDE VIEW

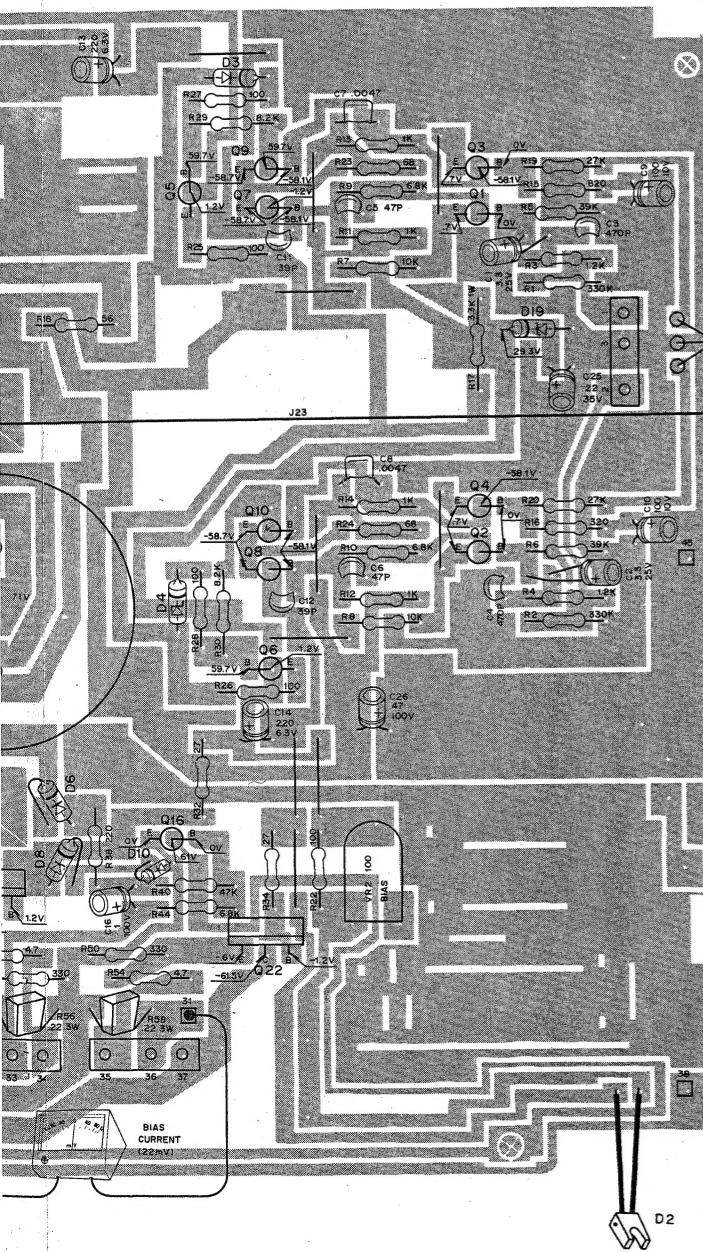
PC BOARD



Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Re-marks 備考
TOTAL			
-	A20-1475-02	FRONT PANEL (11GX)	*
-	A20-1476-02	FRONT PANEL (11000GX)	*
-	A30-0148-03	DIAL BACK BOARD	
-	A33-0051-01	REFLECTOR	
-	A50-0069-03	SIDE PLATE (L)	*
-	A50-0070-03	SIDE PLATE (R)	*
-	A54-0175-12	WOOD FRONT AND TOP BOAR	*
-	B01-0120-03	PANEL ESCUTCHEON	
-	B01-0121-04	PANEL ESCUTCHEON SIDE	
-	B01-0122-04	PANEL ESCUTCHEON SIDE	
-	B04-0069-03	MESH PLATE	
-	B07-0230-14	ESCUTCHEON (SHAFT)	
-	B07-0234-03	ESCUTCHEON (LEVER)	
-	B07-0235-04	ESCUTCHEON (POWER)	
-	B07-0243-04	ESCUTCHEON (PUSH SW)	
-	B07-0244-03	ESCUTCHEON (PUSH SW)	
-	B07-0245-03	ESCUTCHEON (PUSH SW)	
-	B08-0005-04	INDICATOR	
-	B08-2017-14	INDICATOR	
-	B08-3016-04	INDICATOR	
-	B10-0238-03	FRONT GLASS	
-	B20-0422-03	DIAL CALIBRATIONS	
-	B21-0023-14	DIAL POINTER	
-	B30-0077-05	LAMP (8V,50MA) X2	
-	B30-0157-05	LAMP ASSY	
-	B30-0158-05	LAMP (8V,0.2A)	
-	B30-0159-05	LED	
-	B31-0286-05	METER (TUNING/SIGNAL)	
-	B31-0287-05	METER (POWER)	
-	B46-0062-20	WARRANTY CARD	
-	B46-0063-00	WARRANTY CARD	
-	B50-3027-00	INST. MANUAL (11GX)	UH
-	B50-3028-00	INST. MANUAL (11000GX)	*
C1 C6	C91-0023-05	CERAMIC 0.01UF 250VAC	
C1 C6	C52-1756-16	CERAMIC 560PF K	
-	D15-0171-13	DIAL PULLEY	
-	D15-0172-04	PULLEY X4	
-	D20-0142-03	DIAL SHAFT ASSY	
-	D21-0450-03	TIMER SHAFT	
-	D22-0033-04	COUPLING	
-	D32-0082-04	SWITCH STOPPER	
-	E02-0001-05	TRANSISTOR SOCKET	
-	E03-0007-05	AC OUTLET	
-	E06-0501-05	DIN CONNECTOR	
-	E11-0060-15	PHONE JACK	
-	E13-0415-05	PHONO JACK (4P)	
-	E13-0609-05	PHONO JACK (6P)	
-	E14-0107-05	PHONO PLUG (SHORT)	
-	E29-0082-05	ANTENNA TERMINAL	
-	E30-0545-05	POWER CORD (11GX)	
-	E30-0580-05	POWER CORD (11000GX)	
-	G01-0045-24	DIAL SPRING	
-	G01-0360-04	COILED SPRING	
-	G01-0361-04	COILED SPRING (PUSH SW)	
-	G10-0017-04	DUST SHEET	
-	H01-3043-04	CARTON BOX (11GX)	*
-	H01-3044-04	CARTON BOX (11000GX)	*
-	H10-1519-02	PCYSTYRENE FIXTURE	
R17	R17	R17	
POWER AMP			
C1	x2	C25-	
C3	x4	C52-	
C5	x6	C71-	
C7	x8	C46-	
C9	x10	C24-	
C11	x12	C71-	
C13	x14	C24-	
C15	x16	C24-	
C17	x17	C46-	
C23	x24	C46-	
C25		C24-	
C26		C24-	
C28		C25-	
C29		C24-	
C29		C46-	
C30		C24-	
C31		C24-	
C32		C90-	
C37	-40	C54-	
F1		F05-	
F2		F05-	
-		J13-	
L1	x2	L39-	
R17		R47-	

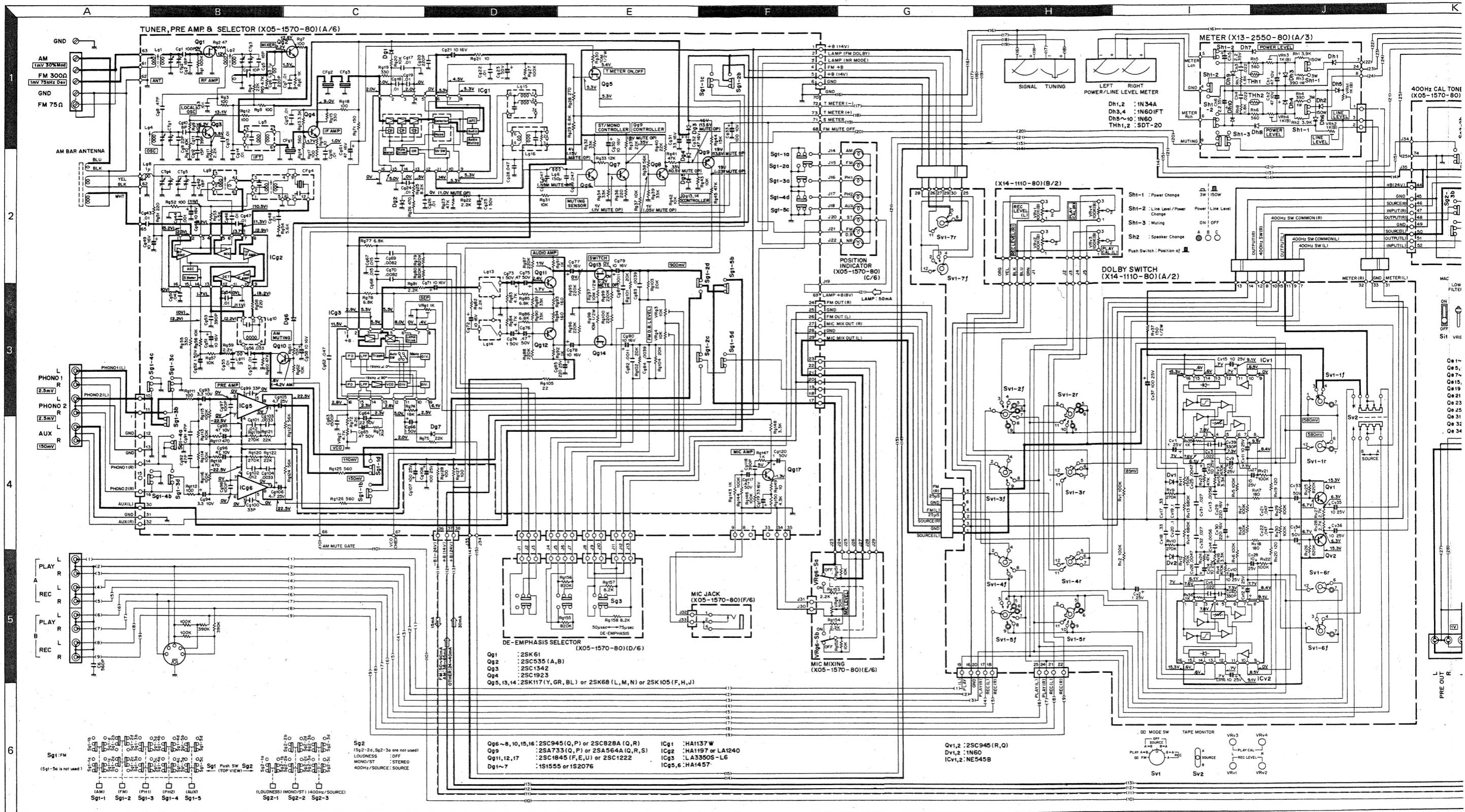
PARTS LIST

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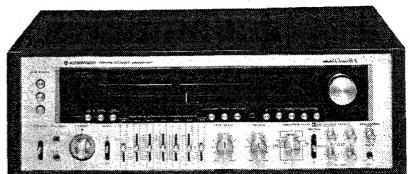
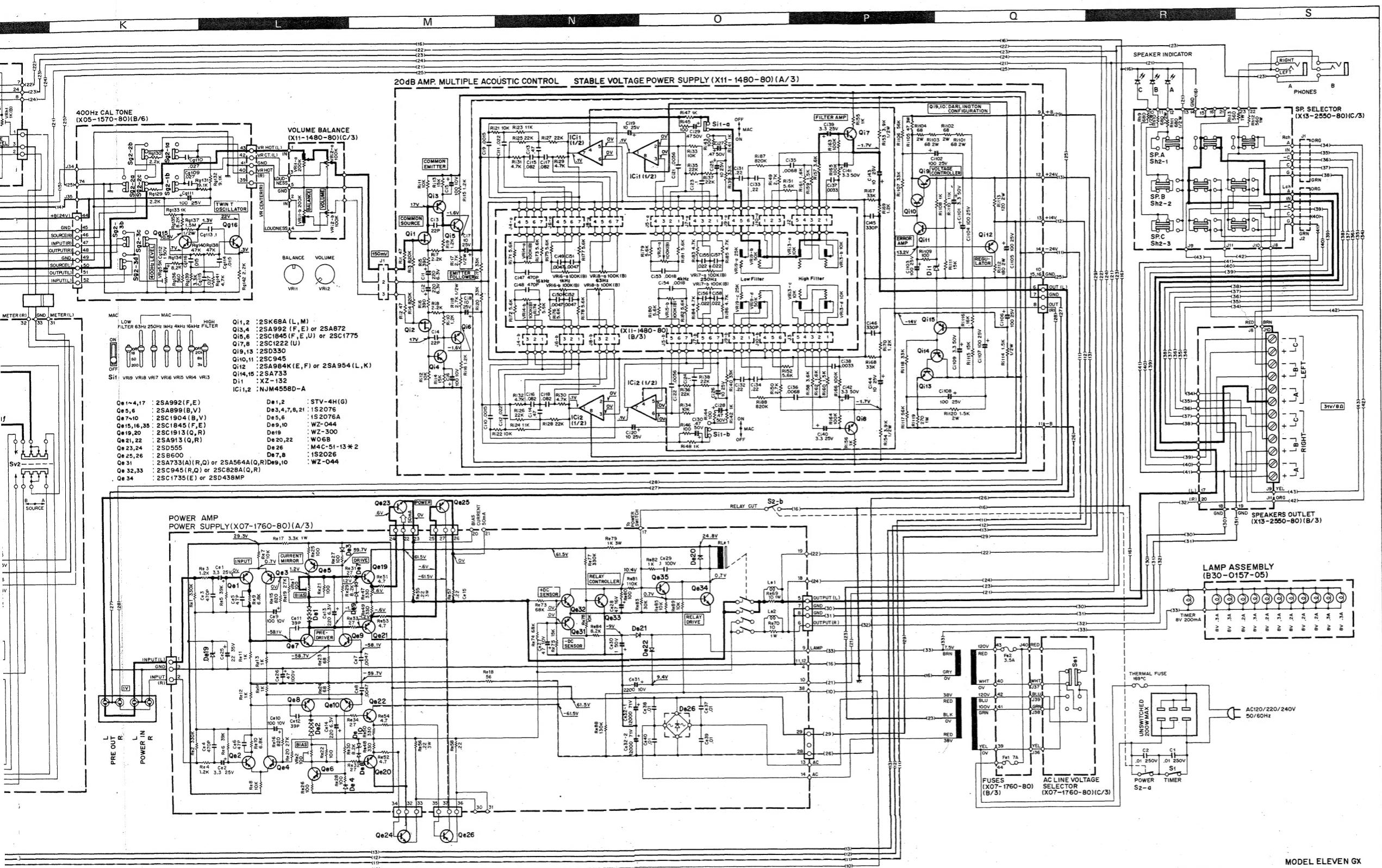
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C6	C52-1756-16	CERAMIC 560PF K	
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-	E30-0586-05	POWER CORD (11000GX)	
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-	G01-0361-04	COILED SPRING (PUSH SW)	
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-	H01-3043-04	CARTON BOX (11GX)	*
-	H01-3044-04	CARTON BOX (11000GX)	*
-	H10-1519-02	POLYSTYRENE FIXTURE	

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考	Ref. No. 参照番号	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考	
-	H20-0449-04	COVER		R18	R43-1256-05	FL-PROOF RD56	J 2E	
-	J02-0104-04	FOOT		R23 ,24	R43-1268-05	FL-PROOF RD68	J 2E	
-	J12-0010-04	SHORT PIN		R25 ,28	R43-1210-15	FL-PROOF RD100	J 2E	
-	J19-0506-05	PCB HOLDER		R29 ,30	R40-8382-26	RC 8.2K	K 2H	
-	J19-0507-05	ANTENNA HOLDER		R31 ,34	R43-1227-05	FL-PROOF RD27	J 2E	
-	J19-0524-14	LED HOLDER		R37 ,38	R43-1222-15	FL-PROOF RD220	J 2E	
-	J41-0033-05	BUSHING (11GX)		R47 ,50	R43-1233-15	FL-PROOF RD330	J 2E	
-	J41-0034-05	BUSHING (11000GX)		R51 ,54	R43-1247-95	FL-PROOF RD4.7	J 2E	
-	K23-0289-04	KNOB(TUNING)		R55 ,58	R92-0167-05	CEMENT 0.22	J 3F	
-	K23-0290-04	KNOB(VOL/BAL/NR MODE)		R69 ,70	R47-5410-05	FL-PROOF RS10	J 3A	
-	K23-0303-03	KNOB(MIC)		R71 ,72	R47-5610-05	FL-PROOF RS10	J 3F	
-	K23-0307-03	KNOB(TIMER)		R79	R47-5610-25	FL-PROOF RS1K	J 3F	
-	K23-0308-04	KNOB(DOLBY)		VR1 ,2	R12-0052-05	TRIMMING POT 100(B)BIAS		
-	K27-0070-04	KNOB(LEVER)		RL1	S51-2038-05	RELAY		
-	K27-0075-04	KNOB(MAC)		S1	S31-2046-05	SLIDE SWITCH		
-	K29-0299-04	KNOB (3KEY)		D1 ,2	V11-5100-40	STV-4H(G)		
-	K29-0300-04	KNOB (3KEY,5KEY)		D3 ,4	V11-0271-05	1S2076		
-	L01-1846-15	POWER TRANSFORMER	*	D5 ,6	V11-0273-05	1S2076A		
-	N08-0127-05	DRESSED SCREW (CASE)		D7 ,8	V11-0271-05	1S2076		
-	N08-0128-35	DRESSED SCREW (GND)		D9 ,10	V11-4161-06	W2-044		
S1	S59-1041-05	SWITCH (TIMER)		D19	V11-4100-20	W2-300		
S2	S33-4014-05	LEVER SWITCH (POWER)		D20	V11-0295-05	W06B		
-	T90-0083-05	AM ANTENNA		D21	V11-0271-05	1S2076		
-	T90-0202-05	FM ANTENNA		D22	V11-0295-05	W06B		
Q23 ,24	V04-0555-00	2SD555		D26	V11-2100-80	M4C-51-13*2		
Q25 ,26	V02-0600-00	2SB600		Q1 ,4	V01-0992-10	2SA992(F,E)		
-	x05-1570-80	TUNER PCB ASSY		Q5 ,6	V01-0199-05	2SA99(B,V)		
-	x07-1760-80	POWER AMP PCB ASSY		Q7 ,10	V03-0460-05	2SC1904(B,V)		
-	x11-1480-80	TONE AMP PCB ASSY		Q15 ,16	V03-1845-10	2SC1845(F,E)		
-	x13-2550-80	SPEAKER PCB ASSY		Q17	V01-0992-10	2SA992(F,E)		
-	x14-1110-80	DOLBY PCB ASSY	*	Q19 ,20	V03-0468-05	2SC1913(Q,R)		
-	POWER AMP PCB ASS'Y (X07-1760-80)				Q21 ,22	V01-0188-05	2SA913(Q,R)	
C1 ,2	C25-1433-57	LL-ELEC 3.3UF 25WV		Q31	V01-0564-30	2SA564A(Q,R) OR		
C6	C52-1747-16	CERAMIC 470PF K		Q31	V01-0733-30	2SA733(A)(R,Q)		
-	C5 ,6	CERAMIC 47PF J		Q32 ,33	V03-0270-05	2SC945(R,Q) OR		
-	C7 ,8	MYLAR 0.0047UF K		Q34	V03-0345-05	2SC828A(Q,R)		
-	C9 ,10	ELECTRO 100UF 10WV		Q34	V03-1735-10	2SC1735(E) OR		
-	C11 ,12	CERAMIC 390PF J		Q35	V04-0438-30	2SD438MP		
-	C13 ,14	ELECTRO 220UF 6.3WV		-	V03-1845-10	2SC1845(F,E)		
-	C15 ,16	ELECTRO 1UF 100WV						
-	C17	MYLAR 0.01UF K						
-	C23 ,24	MYLAR 0.1UF M						
-	C25	ELECTRO 22UF 35WV						
-	C26	ELECTRO 47UF 100WV						
-	C28	LL-ELEC 47UF 16WV						
-	C29	ELECTRO 47UF 10WV						
-	C29	MYLAR 0.1UF P						
-	C30	ELECTRO 1UF 50WV						
-	C31	ELECTRO 2200UF 10WV						
-	C32	ELECTRO 12000UF 71WV						
-	C37 ,40	CERAMIC 0.01UF P						
F1	F05-7025-05	FUSE (7A)						
F2	F05-3523-05	FUSE (3.5A)						
-	J13-0041-05	FUSE HOLDER						
L1 ,2	L39-0080-15	COIL						
R17	R47-5433-25	FL-PROOF RS3.3K	J 3A					



RECEIVER

(KR-11000GX) MODEL 111V1N GR



POWER AMPLIFIER SECTION

B. Saito

Power Output
120 watts per channel minimum RMS, both channels driven, at 8 ohms from 20 to 20,000 Hz with no more than 0.03% total harmonic distortion.

Both Channels Driven	130 + 130W 4Ω at 1 kHz
Dynamic Power Output	440W 4Ω
Total Harmonic Distortion	0.03% at rated power into 8Ω 0.01% at 1/2 rated power into 8Ω
Intermodulation Distortion	0.03% at rated power into 8Ω (60 Hz : 7 kHz = 4 : 1) 0.01% at 1/2 rated power into 8Ω
Power Bandwidth	5 Hz to 70,000 Hz
Frequency Response	5 Hz to 100,000 Hz - 1.5 dB
Signal to Noise Ratio	115 dB (short circuited)
Damping Factor	60 at 8 ohms
Input Sensitivity/Impedance	1.0V/40 kΩ
Speaker Impedance	Accept 4 to 16Ω

PRE AMPLIFIER SECTION

THE AMPLIFIER SECTION		Input Sensitivity/Impedance/Signal to Noise Ratio (IHF A curve)
Phone 1	.....	2.5 mV/50 kΩ/80 dB
Phone 2	.....	2.5 mV/50 kΩ/80 dB
AUX	.....	150 mV/50 kΩ/110 dB
Tape A, B	.....	150 mV/50 kΩ/110 dB
Mic	.....	1.5 mV/10 kΩ/70 dB
Maximum Input Level for Phone	.....	250 mV (RMS), T.H.D. 0.03%
		at 1 kHz
Frequency Response		
Phone	.....	RIAA standard 30 Hz to 20 kHz
		±0.3 dB
AUX and Tape	.....	10 Hz to 60,000 Hz — 1.0 dB
Multiple Acoustic Compensator		
63 Hz	.....	±10 dB at 63 Hz
250 Hz	.....	±10 dB at 250 Hz
1 kHz	.....	±10 dB at 1 kHz
4 kHz	.....	±10 dB at 4 kHz
16 kHz	.....	±10 dB at 16 kHz
Loudness Control (-30 dB Vol.)		+10 dB at 100 Hz
Variable Frequency Filters		
Low Filter	.....	12 dB/oct. (18 Hz to 200 Hz)
High Filter	.....	12 dB/oct. (3 kHz to 20 kHz)
Output Level/Impedance		
Tape REC (Pin)	.....	A: 150 mV/1000 B: 150 mV/1000 D: 120 mV/2000
(DIN)	.....

Pre Out.....

FM TUNER SECTION	
Usable Sensitivity	10.3 dBf (1.8 μ V)
50 dB Quieting Sensitivity	
Mono	14.7 dBf (3.0 μ V)
Stereo	37.2 dBf (40 μ V)
Signal to Noise Ratio at 65 dBf	
Mono	80 dB
Stereo	74 dB
Total Harmonic Distortion at 65 dBf	
Mono	0.1% at 1 kHz
Stereo	0.15% at 1 kHz
Frequency Response	30 Hz to 15,000 Hz + 0.5.
Capture Ratio	-1.0 dB
Alternate Channel Selectivity	75 dB
Spurious Response Ratio	85 dB
Image Response Ratio	60 dB
IF Response Ratio	75 dB
AM Suppression Ratio at	
65 dBf	65 dB
Stereo Separation	48 dB at 1000 Hz
	35 dB at 50 Hz to 15,000 Hz
Sub Carrier Product Rejection	46 dB
Antenna Impedance	300 Ω balanced and 75 Ω unbalanced
FM Frequency Range	88 MHz to 108 MHz
AM TUNER SECTION	
Usable Sensitivity	20 kV
Signal to Noise Ratio	50 dB
Image Rejection	55 dB
Selectivity	30 dB
IF Rejection	30 dB
Total Harmonic Distortion	0.5%

AM TUNER SECTION

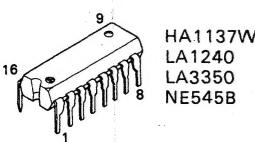
AM TUNER SECTION	
Usable Sensitivity	20 μV
Signal to Noise Ratio	50 dB
Image Rejection	55 dB
Selectivity	30 dB
IF Rejection	30 dB
Total Harmonic Distortion	0.5%

GENERAL

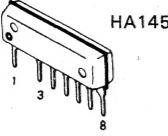
Power Requirement	50/60 Hz, 110-120/ 220-240V
Power Consumption	600 watts at full power
A.C. Outlet	Switched 2, Unswitched 1
Dimensions	W - 24-9/16" (624 mm) H - 8-1/8" (206 mm) D - 18-1/4" (460 mm).
Weight (Net)	47 lb (20.5 kg)
(Gross)	57 lb (26.8 kg)

Note: Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

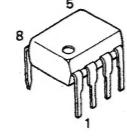
DC voltage measured with 20 k Ω /V VOM under no signal.



HA1137W
LA1240
LA3350
NE545B



HA1457



NJM4558D

MODEL ELEVEN GX

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-	A33-0051-01	REFLECTOR	*
-	A50-0069-03	SIDE PLATE (L)	
③	C1 .2	C25-1433-57 LL-ELEC 3.3UF 25WV	
	C3 .4	C52-1747-16 CERAMIC 470PF K	
	C5 .6	C71-1747-05 CERAMIC 67PF J	
	C7 .8	C46-1747-26 MYLAR 0.0047UF K	
	C9 .10	C24-1010-71 ELECTRO 100UF 10WV	
	C11 .12	C71-1739-05 CERAMIC 390PF J	
	C13 .14	C24-0822-71 ELECTRO 220UF 6.3WV	
	C15 .16	C24-2010-51 ELECTRO 1UF 100WV	
	C17	C46-1710-36 MYLAR 0.01UF K	
	C23 .24	C46-2010-47 MYLAR 0.1UF H	

NOTE:

MODEL 9GX (KR-9000GX) Service Manual had wrong parts No, when reordering, you type the correct parts No. B51-0623-00.

① Symbol of new parts

② Parts list of Model ELEVEN GX and KR-1100GX was included in this manual.

In column of parts list, 11GX means model ELEVEN GX (U, M type), 1100GX does KR-1100GX (H type). Part list of TUNER, TONE, SPEAKER SELECT and DOLBY PCB ass'y is not written, refer to the MODEL 11G service manual.

(Parts No. B51-0530-00)

③ Reference No. in schematic diagram.

④ Abbreviation of "ceramic capacitor"

All capacitors and resistors are listed using abbreviations.

⑤ Abbreviations

* Abbreviations of capacitors (Parts No. with initial letter "C").

ELECTRO..... Electrolytic capacitor

LL-ELEC..... Low leak electrolytic capacitor

NP-ELEC..... Non-pole electrolytic capacitor

MICA..... Mica capacitor

POLYSTY..... Polystyrene capacitor

MYLAR..... Mylar capacitor

CERAMIC..... Ceramic capacitor

TANTAL..... Tantalum capacitor

MF..... Metallized film capacitor

OIL..... Oil capacitor

The unit "UF" is used in lieu of "μF".

* Abbreviations of resistors (Parts No. with initial letters "R").

RC..... Carbon composition resistor

RD..... Carbon film resistor

FL-PROOF RD..... Flame-proof carbon film resistor

RW..... Wire wound power resistor

FL-PROOF RS..... Flame-proof metal oxide film resistor

RN..... Metal film resistor

2B..... Rated wattage 1/8W

2E..... Rated wattage 1/4W

2H..... Rated wattage 1/2W

3A..... Rated wattage 1W

3D..... Rated wattage 2W

3F..... Rated wattage 3W

3G..... Rated wattage 4W

3H..... Rated wattage 5W

All resistor values are indicated with the unit (Ω) omitted.

* Abbreviations common to capacitors and resistors.

C..... ±0.25pF (Used for capacitors only)

D..... ±0.5pF (Used for capacitors only)

F..... ±1%

G..... ±2%

J..... ±5%

K..... ±10%

M..... ±20%

Z..... +80% - 20% (Used for capacitors only)

P..... +100% - 0% (Used for capacitors only)

⑥ Resistors RD (carbon composition resistors) are not listed in the parts list. For values, refer to the schematic diagram.